
Category		Title
NFR:	5.B.1	Biological treatment of waste - composting
SNAP:	091005	Compost production
ISIC:		
Version	Guidebook 2016	

Coordinator

Carlo Trozzi

Contributing authors (including to earlier versions of this chapter)

Katja Hjelgaard, Marc Deslauriers, David R. Niemi and Mike Woodfield

$$E_{pollutant} = \sum_{technologies} AR_{production,technology} \times EF_{technology,pollutant} \quad (1)$$

where:

$AR_{production,technology}$ = the production rate within the source category, using this specific technology,

$EF_{technology,pollutant}$ = the emission factor for this technology and this pollutant.

A country where only one technology is implemented will result in a penetration factor of 100 % and the algorithm reduces to:

$$E_{pollutant} = AR_{production} \times EF_{technology,pollutant} \quad (2)$$

where:

$E_{pollutant}$ = the emission of the specified pollutant,

$AR_{production}$ = the activity rate for this specific technology,

$EF_{pollutant}$ = the emission factor for this pollutant.

3.3.2 Technology-specific emission factors

This section presents Tier 2 technology-specific emission factors for compost production.

Table 3-1 Tier 2 emission factors for source category 5.B.1 Biological treatment of waste - composting, compost production

Tier 2 emission factors					
	Code	Name			
NFR Source Category	5.B.1	Biological treatment of waste - composting			
Fuel	NA				
SNAP (if applicable)	091005	Compost production			
Technologies/Practices	Compost production				
Region or regional conditions					
Abatement technologies					
Not applicable	Pb, Cd, Hg, As, Cr, Cu, Ni, Se, Zn, HCH, PCBs, PCDD/F, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, HCB				
Not estimated	NO _x , CO, NMVOC, SO ₂ , TSP, PM ₁₀ , PM _{2.5} , BC				
Pollutant	Value	Unit	95% confidence interval		Reference
			Lower	Upper	
NH ₃	0.24	kg/Mg organic waste	0.1	0.7	Guidebook (2006)